Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims

Claim 1 (currently amended): A data processing method in a scanning microscope with a fast scanner, comprising:

acquisition of data blocks in real-time with a fast scanner;

transmission of the data blocks to a computer system; and

the computer system processing of selected data blocks before other data blocks, ~~the selection being a function of~~ wherein the sequence in which the computer system processes the acquired data blocks depends on a frame burst ratio and

wherein the frame burst ratio is selected for optimal performance of the computer system.

Claim 2 (canceled)

Claim 3 (currently amended): The method according to claim [[2]] 1, wherein the frame burst ratio is selected by a user as a function of the processing characteristics of the computer system.

Claim 4 (previously presented): The method according to claim 3, wherein all data blocks are stored in the computer system before processing of the selected data blocks.

Claim 5 (previously presented): The method according to claim 1, wherein adaptive control makes the frame burst ratio variable.

Claim 6 (previously presented): The method according to claim 5, wherein an initial value is specified for the frame burst ratio at the start of data acquisition.

Claim 7 (previously presented): The method according to claim 6, wherein all data blocks are stored in the computer system before processing of the selected data blocks.

Claim 8 (previously presented): The method according to claim 1, wherein the selected data blocks are transmitted to the computer system before the other data blocks.

Claim 9 (previously presented): The method according to claim 8, wherein the other data blocks are transmitted to the computer system and processed after the selected data blocks.

Claim 10 (previously presented): The method according to claim 1, wherein the frame burst ratio is adapted by the computer system during acquisition of the data blocks; and in that at the same time only selected data blocks are transmitted to the computer system.

Claim 11 (previously presented): The method according to claim 10, wherein the other data blocks are transmitted and/or processed to the computer system after the selected data blocks.

Claims 12-17 (canceled)